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PRESS RELEASE

**LIGNA Preview**

**WEINIG at LIGNA 2023:**

**Premium partner for cutting-edge technologies**

**in the digital age**

The industry is facing tremendous challenges in view of the digital transformation and more volatile economic conditions. Many companies are forced to compensate for the shortage of skilled labor, save materials and produce faster and more flexibly in order to remain competitive.

The Weinig Group, with its two brands Weinig and Holz-Her, will be presenting groundbreaking solutions for these focus topics at LIGNA 2023. Visitors can expect numerous technological innovations and developments as well as live experiences in XXL format from all business units: The Group will be presenting **over 50 exhibits** on around **5,000 sqm** in **Hall 27.**

True to its motto “Weinig offers more”, the company invites visitors to experience an all-round view of its extensive range of machines, systems, software and services – for the production of single workpieces through to automated series production of solid wood and panel products.

The innovations and developments are focused on resource optimization, ranging from individual technology solutions for machines to innovative, full-fledged production systems.

Stand-alone or networked machines with efficient material handling, precise automation and resource-saving production technologies enable customers to economically manufacture products of the highest quality and in flexible batch sizes despite the shortage in skilled labor.

**The process experts**

For Weinig, partnership in the age of digital transformation means proactively analyzing the potential of trends and technical developments, adopting what is useful in practice and putting it to work for small businesses and industrial operations. The experts of **Weinig Systems Solutions** will be there to inform visitors about Weinig’s competences for the implementation of integrated production lines in the solid wood sector, significant new developments for the optimization of production processes and about current large-scale projects.

**Maximum quality and yield with engineered wood** are more than just buzzwords for Weinig. With innovative product concepts, the **Weinig System Solutions** division has contributed greatly to the development of CLT component production and made it possible to significantly increase timber yield from the board to the finished CLT wall element. At LIGNA we will show a use case with state-of-the-art CLT production for the manufacture of wall elements for timber construction.

**Digital production control and securely networked production**. The **Weinig New Business & Innovation** experts will demonstrate how specific applications increase the availability of the machines and relieve skilled personnel through efficient production control.

**Good partnership & preventive maintenance, repair and service for maximum availability**

Customers want support in the optimal maintenance and servicing of their machines and systems. The service concepts of **Weinig LifeTime Services** cover all stages of a production system’s life-cycle, i.e. we provide service for it before, during and after purchase and in demanding continuous operation. Managed service support forms the basis for consistently high availability with high productivity, a predictable reduction in operating costs and hence a predictable ROI.

**Weinig machines and systems: The perfect combination of flexibility, high performance and cost efficiency**

**Planing and profiling**

**The new Hydromat – robust, flexible, intuitive and with record speed**

With a feed speed of 400 m/min and WMC machine control, the new Hydromat high-speed moulder brings innovative dynamics to planing and profiling processes. Customers in the wood industry, such as sawmills that process sawn timber, benefit from this robust, highly durable, high performance machine. On the one hand, the machine offers features such as the **innovative wood saving system to optimize** chip removal and save material during pre-planing. On the other hand, the machine can be flexibly equipped for the production of profiled goods.

**Hydromat 3000: Robust, wear-resistant, powerful and fast**

With a feed speed of up to 100 m/min and its user-friendliness, the Hydromat 3000 scores in the further processing of sawn timber, e.g. into tongue-and-groove boards, decking boards and mouldings. CNC-controlled adjustment does not require manual intervention, which means that even less qualified employees can operate the machine. The central dashboard of the control system is customizable and can be operated intuitively.

**The Weinig trade fair highlight: Large-scale systems and
innovations in wood processing**

Systems engineering is increasingly becoming the focus of Weinig.

The highlights at LIGNA are

* an optimizing cross-cut line with an OptiCut 450 Quantum cross-cut saw, connected to a finger jointing line and robot stacking
* a ProfiPress C 2500 HF gluing press for the production of wooden panels

**Large-scale system: Scanning, cross-cutting, finger jointing**

This fully automated system shows the production process from raw material to finger-jointed lamellas:

A robot with a vacuum unit stacks raw material onto the line. The workpieces are evaluated by means of a CombiScan Sense scanner. Defects are cut out by the high-speed OptiCut 450 Quantum cross-cut saw and the good parts are automatically fed to the downstream HS 200 finger jointing line for further processing.

The mechanization for direct feeding of the finger jointing line via the cross-cut saw is patent pending.

**CombiScan Sense scanner: Save time and material with AI**

The CombiScan Sense scanner scans up to 80 boards per minute to detect cracks, knots, etc. To check the quality of the wood, the scanner uses artificial intelligence, making detection more accurate, reliable and repeatable. The scanner enables line automation and thus a reduction of the required manpower. It saves between 3 and 10% material, depending on the application.

The wood is cut to the required length using the **OptiCut 450 Quantum high-speed cross-cut saw**. The VarioStroke sawing unit of the OptiCut 450 Quantum can be flexibly adjusted to eight different cutting positions, enabling very short cutting times for all cross-sections within the maximum cutting range. Also, the perfected saw blade bearing and the unique saw blade guidance improve the cutting quality, even at high cutting frequencies: Thanks to its dynamic infeed unit and feed rollers that are individually controlled from above, the workpieces are always safely guided. Then the finger jointing line is loaded fully automatically.

**Finger jointing line HS 200** **for horizontal finger joints**

The HS 200 is characterized by an output of up to 240 perfectly processed parts per minute. All tools are adjustable down to a hundredth of a millimeter. The minimal height offset of the finger joints ensures high material yield.

**The ProfiPress C 2500 HF - the Non Plus Ultra for the industrial
production of solid wood panels.**

For customers who need to produce solid wood panels cost-efficiently at high output, the ProfiPress C 2500 HF, one of the fastest gluing presses in the world, can be seen in live operation at the exhibition. Up to 100 lamellas per minute are glued at the edge, collected and continuously pushed into the press. The super-efficient high-frequency heating system ensures fast curing of the glue joints without heating the wood. The result is tension-free, edge-glued solid wood panels with the highest joint and surface quality. The possibility of endless gluing in combination with a cross-cut saw after the press, for cutting the glued panel to required width, ensures optimum wood utilization.

**CNC Center | Conturex Vario L with Performance Package**

In live demonstrations, Weinig shows how the new Conturex Vario L achieves the fastest part transfer in the world.

Thanks to the multi-part sequence process for CNC finishing on 6 sides, the process is faster: profile milling, drilling and cutting to length are performed at top speed. No manual set-up work is necessary, changeover is automatic. The faster machining processes require less labour input, smaller batch sizes can be produced more profitably.

**Cutting**

**PowerSplit 1250 Single band resaw – the powerhouse for industrial cutting**

With a feed speed of up to 150 m/min, the PowerSplit 1250 cuts softwood quickly and hardwood reliably and efficiently. The new generation of band resaws from the Split series features bandsaw blades that lead to less waste and allow variable cutting speeds of 20-60 m/s. Continuous center cut operation ensures that less material is lost. Adjustable saw setups reduce band saw downtime.

**Focus topic: Prefabrication processes in timber construction**
**Special exhibition**
**Construction timber systems at Weinig Grecon in Alfeld**

As in previous years, the Weinig Grecon production site in Alfeld near Hanover will be opening its doors at LIGNA for a supplementary special exhibition on the subject of jointing technology.

Finger jointing lines for optimum material utilization and efficient, value-adding utilization of residues of the valuable raw material wood will be on display.

The special exhibition will focus on various types of finger jointing lines – ProfiJoint, Ultra TT 100, Power Joint 18 and Power Joint 8 - supplemented by a Rondamat tool grinder.

**A bus shuttle service from LIGNA to Alfeld has been arranged.**

Weinig photos:

[Hydromat 3000](https://www.weinig.com/fileadmin/assets/weinig/news/press/press_fotos/WEINIG_Hydromat_3000.jpg)

[CombiScan Sense Scanner](https://www.weinig.com/fileadmin/assets/weinig/news/press/press_fotos/WEINIG_CombiScan_Sense.jpg)

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